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SDN No. RD0-1105/23

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TO:

SUBJ:

(Informal Progress Report, Contract RD-103, DEC 59) (INC)

This letter constitutes the Forty-Fifth Monthly Report, submitted in compliance with Contract RD-103, covering the month of December, 1959.

TASK 5. DEVELOPMENT OF AS-5 SYSTEM

During this reporting period, the first AS-5 model was successfully demonstrated to Government personnel. The demonstration included operations in both the transmit and self test modes.

After completion of the demonstration, the equipment was partially dismantled so that the several sub-assemblies (power supplies, exciter, regulator, etc.,) could be duplicated. Modification of the power amplifier wiring layout was also accomplished. Remaining work to be completed on System #1 includes checkout of redundant operation and noise detecting circuits, and construction of air ducting in the power amplifier drawer.

Progress on the construction of System #2 is substantially on schedule.

TASK 7. SERVICE AND SUPPORT

[] authorized repairs to the interim power supply for the AS-6 Field Unit. This work was started during the last reporting period on a part time basis and will be completed during the next month.

[] authorized repairs to be made to two (2) each 50-volt power supply sub-assemblies of the RS-16 Test Power Supply.

A conversion design for interconnecting the AS-4A Data Terminal and Burroughs Printer was accomplished under [] authorization.

DOC	101	REV DATE	1 APR 1960	BY	064540
ORIG COMP	056	OPI	56	TYPE	20
ORIG CLASS	3	PAGES	3	REV CLASS	5
JUST	22	NEXT REV	2010	AUTH	HR 10-2

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[] A number of parts for the RS-16 Coder were delivered to []
in accordance with instructions issued by []

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TASK 8. AS-6 DATA TELEMETERING SYSTEM

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A series of tests were performed involving the final models of both the Communication and Collector Packages. Compatibility was finally successfully demonstrated and it now remains that only the Field Unit be sealed.

The final report is now in the process of being prepared for publication.

TASK 10. FABRICATION OF RS-16B

Two (2) of the four (4) spare battery packs still to be delivered have been assembled. A lack of battery jumper bars is holding up the completion of the two remaining units. All work should be completed by the end of the next reporting period.

At a recent conference with [] a decision was reached to replace the final report on this Task by an addendum to the RS-16 Test Power Supply Instruction Manual to cover maintenance and checkout of the RS-16B Field Unit with the test power supply. This work is now in process and should be completed shortly.

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TASK 12. RS-16B ANTENNA TUNERS

The first engineering model was completed, tested, and sent to the Government for their evaluation before Christmas, as was promised. Drawings are now being brought up-to-date in preparation for the production of the fifteen (15) additional models. Any changes, requested by the Government Engineers, as a result of their evaluation of the first engineering model, will be included in these drawings. The Final Report is now being written, during this evaluation period, and will be available, at the time of delivery of the finished models, in published form.

TASK 15. REFURBISHMENT OF RD-59 RECEIVE TERMINAL

Rework of existing RD-59 chassis is now essentially complete, except for the teletype chassis. This particular chassis is being modified to convert the data to a form which will be suitable for interoperation with standard or ^{on}line cryptographic units. This minor modification is beyond the scope of the original contract, but is being added, with the consent of the cognizant Government Engineer.

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Work on new chassis is proceeding satisfactorily with the first punch chassis scheduled for test on January 6.

TASK 16. AS-3 REDESIGN

The prototype model of the AT-3 transmitter was successfully demonstrated to the Government representative at this Facility, and then later delivered to the contracting agency for further testing. Completion of the production drawings is scheduled for early in January.

TASK 17. TRANSMITTER-RECEIVER UNITS

The five (5) units, together with antennas and battery charger, are scheduled to be delivered by the end of January.

GENERAL

[redacted] ended his visit here on December 4th, after having completed the detailed AS-3 Transmitter performance tests.

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[redacted] were here on December 7th and 8th to discuss current and future work. [redacted] returned the 10th for additional detailed discussions.

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[redacted] was here on December 7th to discuss details regarding the interconnection of the AS-5 and [redacted]

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[redacted] was here on December 7th and 8th; and [redacted] was here December 8th and 10th to discuss contractual matters and to describe the [redacted]

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